

Rhyo

Powerful and Versatile Fiber Laser with 30W average power

Rhyo is our most powerful fiber laser with 30 W average power @1 MHz pulse rep. rate makes it the perfect tool for Cold processing industrial grade applications and fundamental science applications, all in one.

This versatile pulsed laser allows to tune the repetition rate from 1 Hz to 1 MHz.

/ Highlights

High Energy Pulse
1 Hz to 1 MHz range

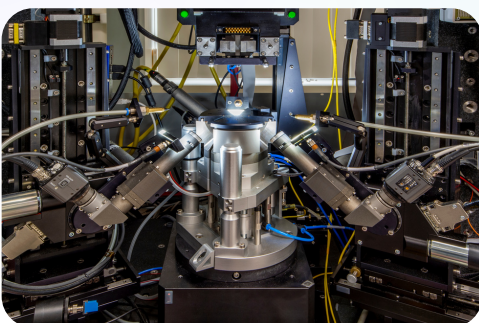
Pulse Duration FWHM:
 ≈ 400 ps

Max Pulse Energy:
30 μ J

Max Average Power:
30 W

Max Peak Power:
75 kW

/ Applications



Cold processing

Industrial grade applications



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/ Accessories

Pulse Compressor

Output Max Average Power: 17 W
Output Max Pulse Energy: 17 μ J
Output Pulse Duration: 1 ps

Compression module is mounted inside the laser case

Tunable Repetition Rate

Operation Rep Rate: Tunable from 1 Hz to 1 MHz
Burst mode: Selection of arbitrary number of pulses
(at operation rep rate)
Output Max Pulse Energy with compressor: 15 μ J
Output Max Pulse Energy without compressor: 24 μ J

Burst module is mounted inside the laser case



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/ Technical Specifications

Max Pulse Energy:	Max Average Power:	Max Peak Power:	Pulse Duration FWHM:
30 μJ	30 W	75 kW	\approx 400 ps

Central wavelength:	1064 nm
Repetition Rate:	1 MHz
Average Power Stability (24h):	< 1 % (std. dev.)
Output polarization:	Linearly Polarized; PER > 23 dB
Optical output:	Collimated Output
Beam Diameter:	2 mm (1/e ² @ 1064 nm, 0.5 m from output)
Spatial Mode Quality (M ²):	< 1.3
Beam Divergence:	<15 mrad (at 1064 nm)
Trigger Synch Output:	TTL (SMA) - USB - Interlock
Cooling:	Thermoelectric cooler + air cooling
Power Requirements:	24 V (30A)
Operating Temperature:	15 - 30 °C
Storage Temperature:	0 - 60 °C
Software:	User-friendly with alignment mode

OTHER DETAILED SPECS UNDER REQUEST

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/ Additional information



Laser Security:

This product is a Class 4 laser.

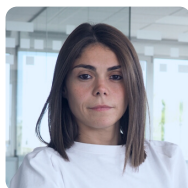
Appropriate safety measures according to such laser class should be taken in its installation and use.

Warranty:

24 months warranty or > 10,000h of continuous operation.

Extended warranty on request.

/ FYLA contact



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